WHAT IS CLAIMED IS:

1. A positive electrode active material for a secondary battery comprising a lithium manganate and a lithium nickelate,

wherein said lithium manganate is a compound having a spinel structure represented by the following formula (1) or said compound in which some of Mn or O sites are replaced with another element:

$Li_{1+x}Mn_{2-x}O_4$ (1)

(in said formula (1) above, $0.15 \leq x \leq 0.24$).

2. A positive electrode active material for a secondary battery comprising a lithium manganate and a lithium nickelate,

wherein said lithium manganate is a particle compound having a spinel structure represented by the following formula (1) or said compound in which some of Mn or O sites are replaced with another element; and

an Mn elution amount when immersing said particles in a mixture comprising an electrolyte salt and a carbonate solvent is 1000 ppm or less as determined by inductive coupling plasma emission analysis:

$Li_{1+x}Mn_{2-x}O_4$ (1)

(in said formula (1) above, $0.15 \leq x \leq 0.24$).

3. A positive electrode active material for a secondary battery comprising a lithium manganate and a lithium nickelate,

wherein said lithium manganate is a particle compound having a spinel structure represented by the following formula (1) or said compound in which some of Mn or O sites are replaced with another element; and

a specific surface area of said particles as determined by the BET method is 0.3 m^2/g to 0.8 m^2/g both inclusive:

$Li_{1+x}Mn_{2-x}O_4$ (1)

(in said formula (1) above, $0.15 \leq x \leq 0.24$).

4. The positive electrode active material for a secondary battery according to any of Claims 1 to 3, wherein said lithium nickelate is a compound represented by the following formula (2) or said compound in which some of Co or O sites are replaced with another element:

$LiNi_{1-y}Co_yO_2$ (2)

(in said formula (2) above, $0.05 \leq y \leq 0.5$).

5. The positive electrode active material for a secondary battery according to Claim 4, wherein said lithium nickelate is a compound represented by the following formula (3):

$LiNi_{1-\alpha-\beta}Co_\alpha M_\beta O_2$ (3)

(in said formula (3) above, M comprises at least one of Al and Mn; $0.1 \leq \alpha \leq 0.47$; $0.03 \leq \beta \leq 0.4$; and $0.13 \leq \alpha + \beta \leq 0.5$).

6. The positive electrode active material for a secondary battery according to any of Claims 1 to 3, wherein said lithium nickelate is a compound represented by the following formula (4):

$LiNi_{1-p-q}Co_pM_qO_2$ (4)

(in said formula (4) above, M comprises at least one of Al and Mn; $0.1 \leq p \leq 0.5$; $0.03 \leq q \leq 0.5$; and $0.13 \leq p + q < 1$).

7. The positive electrode active material for a secondary

battery as claimed in any of Claims 1 to 6, wherein when a weight ratio of said lithium manganate to said lithium nickelate is a : (100-a), "a" is in a range of $20 \leq a \leq 80$.

8. A positive electrode for a secondary battery comprising said positive electrode active material for a secondary battery as claimed in any of Claims 1 to 7 which is bound via a binder.

9. A secondary battery comprising at least a positive electrode and a negative electrode, comprising said positive electrode active material for a secondary battery as claimed in any of Claims 1 to 7.

10. The secondary battery as claimed in Claim 9, wherein said negative electrode comprises amorphous carbon as a negative electrode active material.

11. A process for manufacturing said positive electrode active material for a secondary battery as claimed in any of Claims 1 to 7, comprising the steps of:

mixing an Mn source and an Li source to prepare a first mixture, which is then subjected to a first calcination at a temperature of no less than 800 °C; and

mixing a first-calcination product obtained by said first calcination with said Li source to prepare a second mixture with a higher rate of said Li source than said first mixture, and conducting a second calcination of said second mixture at a temperature of no less than 450 °C and lower than said first calcination to obtain said

lithium manganate,

wherein a D_{50} particle size of said Li source is 2 μm or less.